

1. Record Nr.	UNINA9910574851403321
Titolo	Fundamental Aspects and Perspectives of MXenes // edited by Mohammad Khalid, Andrews Nirmala Grace, Arunachalam Arulraj, Arshid Numan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-05006-1
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (362 pages)
Collana	Engineering Materials, , 1868-1212
Disciplina	620.118 546.6
Soggetti	Materials science Surface chemistry Composite materials Materials Science Surface Chemistry Composites
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	1. Introduction -- 2. Synthesis and Processing Strategies -- 3. Properties of MXene -- 4. Composites of MXene.
Sommario/riassunto	This book presents the fundamental aspects, recent developments in fabrication and characterization techniques, structure, properties, and emerging applications of MXenes. It shows the advancement in scale-up, challenges, and their futuristic perspectives. An overview of all the latest developments in energy storage and conversion applications, catalysis, environmental remediation, and radiation shielding, etc is reported. .